

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION IX – PACIFIC SOUTHWEST REGION 75 Hawthorne Street San Francisco, CA 94105-3901

August 9, 2016

In Reply Refer To: ENF-3-1

Mr. Don Kiefer General Manager Clean Harbors Environmental Services 5756 Alba Street Los Angeles, CA 90058

Re:

Clean Water Act Pretreatment Inspection

Dear Mr. Kiefer:

Enclosed is the report for our September 14, 2015 Pretreatment inspection of Clean Harbors at the above address in Los Angeles, CA.

By September 13, 2016, please submit a short response letter to the Summary of Requirements and Recommendations section of this report. Your letter should include an individual response to each numbered concern.

Please send your letter to the attention of James Polek at EPA (and include the code "ENF-3-1" in the address above), with copies to the City of Los Angeles Bureau of Sanitation and to the Los Angeles Regional Water Quality Control Board.

In lieu of submitting the requested response by certified mail, Clean Harbors may submit the response as portable document files (pdfs) via electronic mail

We would like to thank you for your cooperation during the inspection. If you have any questions, please call James Polek at (415) 972-3185 or e-mail him at polek.jim@epa.gov.

Sincerely,

Ken Greenberg

Manager, Water Section I

Ken Freenly

Enforcement Division

Enclosure

cc (w/enclosure by email):

Theodore Higgins, City of Los Angeles Bureau of Sanitation Cris Morris, Los Angeles Regional Water Quality Control Board

SITE VISIT DATA SHEET

INS	TRUCTIONS: R	lecord o	observation	is mac	de dur	ring th	ne IU site vis	it. Provide	as m	uch detail as possible.
Nam	e of Industry: C	lean Ha	arbors Los	Angel	les, L	LC				
Add	ress of Industry:	5756 A	Iba Street	; Los	Angel	les, C	A 90058			
Date	of visit: 9/14/20)15			Tir	ne of	visit: 1:00 p.	m.		
Nam	e of inspector(s)):		-1						
Theo	dore Higgins, S	enior E	nvironmen	ital Co	ompli	ance l	Inspector, Ci	ty of Los A	ingel	es (City)
Vang	gie Paragas, Env	ironme	ntal Comp	liance	Inspe	ector,	City		77	The second second
	Polek, EPA Regi						t familia		12	
Eric	Magnan, EPA R ny O'Connell, El e Holland, EPA	egion 9)					Olani	1	Melali
Danr	ny O'Connell, El	PA Cor	tractor, PO	G Env	ironm	nental	, LLC	11110	om.	111 -100/16
Ketti	e Holland, EPA	Contra	ctor, PG E	nviror	nment	tal, Ll	LC Ketta	A. Hal	land	1 8/2/16
	1.61 1.264	721 7 4					00000	0 0100		017,10
Prov	ide the name(s)	and title	e(s) of indu	ıstry r	epres	entati	ve(s)			
	Na	me				T	itle		Maria de la companione	Phone/Email
Don	Kiefer				Gene	ral M	anager	323-277	-2500	0
Steve	Peterson				Facil	ity Ge	eneral	Not prov	ided	
		74		A. 171	Mana	ager				
- The second second	r Militar				Labo	ratory	/ Manager	Not prov		
IU Pe	ermit Number: V	V-5004	67				Date:	IU Class	ificat	tion: Categorical industrial
					6/30/	2017		user (CI	U) su	bject to 40 CFR 437,
										Vaste Treatment, Subpart D,
								The state of the s		ste streams. Refer to note 1 in
								Secure recommendation of the security of		tion for additional
et dans to be on the land					-			informat	-	
Inspe		X		ed			duled		PC.	
-	Purpose		PCI			ew Co	ompany	X	Ind	ustrial User Inspection
+	e provide the fol									
1.										al transformer and capacitor
										ts and treats potentially
										tormwater is collected,
										ned treatment works
										rmer oil is a categorical
			collected	from 1	these	categ	orical operat	tions and d	ischa	arged to the POTW is subject
	to 40 CFR 437.									
2.	Number of		proximate		Jumb	2085	Not	Hours of		6:00 a.m.—10:30 p.m.;
	employees	20.		0	f shif	100000000	reviewed	operation	:	Monday—Friday.
							(N/R).			
3.	Water source: N									
4.										and discharge wastewater
										with transformer/capacitor
									holo	ling tank, where it was tested
	(and treated if n		ry) prior to			1	The second secon			7.60
Sanita	ry:	N/R.		Proce	ess:		roximately	Combine	d:	N/R.
			1			615	gallons per			

	day (gpd) of potentially
	contaminated
	stormwater.
r n	4 -1

- 5. Describe any significant changes in process or flow: No significant changes in process or flow were observed at the facility during the inspection.
- 6. Type of pretreatment system (Describe): The facility does not generate and discharge process wastewater from its transformer oil recovery process to the POTW but does collect stormwater potentially contaminated with transformer/capacitor oil. The stormwater may be pretreated prior to being discharged to the POTW. Specifically, stormwater collected at the facility's outdoor process area is pumped and stored in a 100,000 gallon holding tank (referred to as Tank V-9). According to the Laboratory Manager, when Tank V-9 contains between 60,000 and 80,000 gallons of stormwater, he collects a sample from the tank for analysis. If the stormwater sample meets the permitted discharge limits listed in the facility's permit, the facility will notify the City and will need to receive permission from the City to discharge prior to discharging the stormwater to the POTW.

According to the facility representatives, if the stormwater does not meet the permitted discharge limits, the facility will hire a contractor deliver granular activated carbon (GAC) units to the facility to treat the stormwater. The facility will then re-analyze the stormwater and determine if it requires additional treatment prior to discharging to the City's POTW. The facility representatives reported that there has been one instance when the facility has had to filter the stormwater with GAC units prior to discharging. This instance occurred during December 2010 when the stormwater was contaminated with capacitor/transformer oil. During this time, the results of the stormwater analysis showed a concentration of 8-9 parts per billion (ppb) of polychlorinated biphenyls (PCBs) and the stormwater was treated prior to discharge.

The Laboratory Manager stated that the facility discharges batches of stormwater to the POTW and maintains a log of these batch discharges. During the inspection process, the EPA Inspection Team asked for the date of the most recent event in which stormwater was discharged to the POTW. The Laboratory Manager stated that the most recent discharge event occurred during May 2015. According to the batch discharge log, the facility discharged approximately 76,000 gallons of stormwater during May 2015. Facility representatives stated that during these discharges, a facility representative and a city representative are present to supervise the discharge from Tank V-9 to the POTW. Refer to note 2 in the Notes section for additional information regarding the facility's sampling and discharge practices.

Continuous flow X Batch Combined

7. Condition/operation of pretreatment system (Describe): As previously stated, the facility did not have a pretreatment system but may have GAC treatment units delivered to the facility in the event that the stormwater needed to be treated prior to discharge. The GAC treatment units were not onsite at the time of the inspection

At the time of the inspection, Tank V-9 contained approximately 2,000 gallons of liquid, at 4:03 p.m., according to the tank's level sensor (refer to Photograph 1). A puddle of unidentified liquid was accumulated on the concrete surface near Tank V-9 at the time of the inspection, refer to note 3 in the Notes section for additional information.

Any unusual conditions or problems with the pretreatment system: The EPA Inspection Team identified discrepancies with the flow level entries documented in the log book (refer to Attachment 2). The EPA

Inspection Team also observed leaking pipes within the vicinity of Tank V-9. Refer to notes 3 and 4 in the Notes section for additional information.

- 8. Process area description (identify raw materials and processes used): The facility received electrical transformer and capacitor units (units) for recycling. The facility did not manufacture products from the raw materials. The facility had screening and profiling procedures for accepting units containing transformer/capacitor oil for new and existing clients. The facility removed and characterized the oil and hauled it offsite for treatment or disposal at a different location. The empty units are recycled. The following process operations were observed by or explained to the EPA Inspection Team during the inspection:
 - Waste profiling process—When the facility receives waste from a new generator, the waste generator is required to submit an analysis of the transformer/capacitor oil that is to be received at the facility. The facility also collects and analyzes a sample from new client's units to confirm that the liquid is transformer/capacitor oil and to confirm the concentration of PCBs within the oil. The unit is put on hold, stored at the facility, and assigned a processing code until the results of the sampling analysis are complete. If the analysis confirms that the liquid consists of transformer/capacitor oil and is within the allowable concentration of PCBs, the facility will accept the unit. If the PCB concentration in the oil is at or below 49 parts per million (ppm) the oil will be pumped from the unit and transferred to a tank for storage and shipment to another facility for treatment or disposal. The empty units are recycled. If the PCB concentration in the oil is greater than 49 ppm the oil is not pumped from the unit; the full unit is stored and is shipped off for disposal.

In the event that the results of the analysis are inconsistent with the content of the unit according to the generator, or if the analysis shows high concentrations of PCBs, the facility will notify the generator and will either transfer the waste to location (different than the destination of the transformer oil accepted at the facility) or will reject the waste load.

If the waste is accepted at the facility, the PCB concentration is written on the unit and a barcode is attached to the transformer/capacitor so the unit can be traced throughout the facility. Waste is collected and stored depending upon the concentration of PCBs within the oil. Oil with a PCB concentration of < 2 ppm is collected within one storage area and oil with a PCB concentration between 2 and 49 ppm is collected within another storage area of the facility. According to the facility representatives, units containing oils with PCB concentrations greater than or equal to 49 ppm are not accepted at this facility (refer to Photographs 2 and 3).

The facility also has a process for accepting units from generators that frequently use the facility services. The facility will receive a batch of units from the generator and will test 10 percent of the batch to ensure that the units have a profile consistent with previously documented profiles. The 10 percent check also confirms the concentration of PCBs unique to this shipment. Once the analysis from the batch has been processed and the samples meet the specifications, the units in the batch are assigned a bar code. If units don't meet the specifications the units are either hauled to another facility or are rejected from the facility.

The facility representative stated that Howard Transformers are accepted at the facility. According to the representatives, these transformers contain oil with a PCB concentration of <2

ppm. Therefore, the PCB concentration of the transformer oil within the Howard Transformers are not typically confirmed by collecting and analyzing a sample.

Waste processing—The units received at the facility were stored at the "pumping pad" which
consisted of a concrete pad with overhead coverage. Here, the facility employees opened the
transformer and collected a sample of transformer/capacitor oil for analysis. The units would then
be marked with a grease marker depending on the concentration of PCBs in the oil (refer to
Photographs 2 and 3).

Units containing oil with a PCB concentration of <2 ppm PCBs would be pumped to Tanks V-1 and V-2. Oil from Tanks V-1 and V-2 was then pumped to Tank V-10, a 20,000 gallon holding tank and would be transferred to another facility for treatment and disposal. Units with oil that had a PCB concentration between 2 and 49 ppm would be pumped to Tanks V-3 and V-4. Oil from Tanks V-3 and V-4 was then pumped to Tank V-8, a 100,000 gallon holding tank for collection and transport to another facility for treatment and disposal (refer to Photographs 4 through 6)

9. Condition/operation of process area (Describe): The facility's process area was located on an impervious surface (concrete or asphalt) and was located outdoors, within the facility's fence line. The process area was crowded with units, some of which were empty, full, or whose oil content had been sampled and were thus awaiting analysis.

Various pipes were located within the pumping pad process area. The facility representatives explained that a number of the pipes were left over from the facility's past wastewater treatment process. The pipes were no longer in use at the time of the inspection. Numerous pipes were cut, capped, or disconnected.

Any unusual conditions or phoblems with the process area: The EPA Inspection Team observed housekeeping issues related to oil spills throughout the process area. Refer to note 3 in the Notes section for additional information.

10. General housekeeping in process area (Describe): The EPA Inspection Team observed several leaks and evidence of spills throughout the process area. Refer to note 3 in the Notes section for additional information.

Any unusual conditions or problems with general housekeeping in process area: Yes, the EPA Inspection Team observed oil stains on the pavement and accumulated oil leaking from various units throughout the facility during the inspection. Refer to note 3 in the Notes section for additional information.

11. Chemical storage area (identify the chemicals that are maintained on-site and how they are stored): The facility's centralized chemical storage area was not observed as a component of the inspection.

		COUNTY OF ME IN COMPONIC	- 01 mm mopoundm
Any floor drains?	N/R.	Any spill control	Absorbent material was
		measures?	observed being applied to
		,	oil spills throughout
			various areas of the
	,		facility. Refer to note 3 in
			the Notes section for
			additional information.

General housekeeping of chemical storage area (Describe): N/R.

12. Are hazardous wastes drummed and labeled? Hazardous waste in the form of transformer/capacitor waste oil was received at the facility. Hazardous waste labels were attached to the outside of the transformer and capacitor shells (refer to Photographs 7 and 8).

13.	Does the IU have hazardous waste man	nifests? Yes, t	he facility m	naintains haza	ardous waste manifests for
	the transformers and capacitors receive				
	Any problems associated with hazard	ous waste: Va	rious housek	ceeping issue	s were observed with waste
handl	ing at the facility. Refer to note 3 in the				
14.	Solid waste production: The facility pr				
g = 2	shells.				l
	Solid waste disposal method(s): The t	ransformer/ca	pacitor shell	s were collec	eted for recycling at an
offsit	e facility.	- 1 - 2 - 2 N	1.3 1.5 5 1.1		
15.	Description of sample location: The fa	cility's sampli	ng point wa	s located at a	two-stage sampling box
1914	located to the west of the facility, outs	ide of the facil	ity's fence l	ine. The faci	lity was not discharging
	stormwater to the City's POTW at the				
172	Sampling method/technique: Grab and				
locati					18
16.	Evaluation of self-monitoring	Yes	X	No	N/A
11/2	data?		18 A 18 18 18 18 18 18 18 18 18 18 18 18 18	LE TRIE	
	If yes, was self-monitoring adequate:	The facility's	self-monitor	ring data was	not reviewed as a
comp	onent of the inspection.	oka objetjav		1 1 11	
17.	Who performs the self-monitoring ana	lysis? This con	mponent wa	s not reviewe	ed as part of the inspection.
Notes					

- - The facility representatives and City representatives stated that although the facility was not generating wastewater from its categorical process, the facility preferred to keep their wastewater permit (classifying the facility as a CWT) active in the event that the facility began generating and discharging CWT process wastewater to the POTW. The stormwater that is collected and may be potentially contaminated from the facility's CWT process is discharged to the POTW and is subject to the regulations at 40 CFR 437.
 - 2. The facility's Laboratory Manager explained that stormwater samples are collected from Tank V-9 to identify the concentration of PCBs and determine if the stormwater needs to be treated prior to discharging to the City's POTW. The Laboratory Manager stated that the tanks are not homogenized or mixed and that a sample is collected from a pipe leading from the bottom of the tank. Since the facility handles transformer/capacitor oil, it appeared to the EPA Inspection Team that the stormwater collected and stored within Tank V-9 may contain transformer/capacitor oil which would float at the top of the tank. Due to this phase differential, it was unclear to the EPA Inspection Team if samples collected utilizing the aforementioned technique would be representative of the concentration of oil within Tank V-9. Therefore, it is strongly recommended that the facility ensure that representative stormwater samples are taken utilizing a written technique that is representative of the constituents (e.g., oils) that may contaminate the stormwater collected at the facility.

Additionally, the facility representatives stated that during the time in which the facility discharges stormwater from Tank V-9 to the City's POTW, a facility representative is present for periodic segments of the duration of the discharge. The facility representative is present to supervise and observe the stormwater during the discharge event. However, during conversations with the facility and City representatives, a facility representative does not supervise the stormwater for the entirety of the duration of the discharge. The facility has not implemented a standard operating procedures (SOP) or similar written document providing guidance for how the stormwater from Tank V-9 should be sampled or discharged to the City's POTW. Due to the nature of the oil that may contaminate the stormwater, it is

recommended that the facility implement a written process for sampling and discharging stormwater from Tank V-9 in a manner that does not jeopardize compliance with the discharge limitations included in the facility's permit.

3. During the inspection of the process area to the northeast of the pumping pad, the EPA Inspection Team identified multiple transformers that were leaking oil. The oil was actively leaking from one of the units. Evidence of past spills or leaks was also present on the pavement. The facility had applied solid absorbent material to the oil, however, transformer oil was still actively leaking from one of the units (refer to Photographs 10 through 14). The facility representatives stated that they had procedures in place to address spills and leaks of transformer oil at the facility; however, it did not appear that they were being implemented. It is recommended that the facility implement and adequately adhere to its spill prevention and clean up procedures to ensure that oils containing PCBs (i.e. hazardous waste liquids) are not leaking onto the pavement at the facility.

The EPA Inspection Team also observed a leaking pipe located at the southwestern area of the waste storage area where Tanks V-8, V-9 and V-10 were located. Leaking liquid dripped from the pipe and accumulated within the berm of the concrete pad and along the western and southwestern wall of the containment berm (refer to Photographs 15 and 16). The facility representatives explained that they had an electronic database system that was used to document inspections conducted throughout the process areas by facility representatives. The facility representatives also stated that in the event that the facility employees observed a maintenance issue, an entry would be generated in the facility's work order system and would be required to be addressed by a facility employee. According to the information provided from the facility's work order system, a work order had not been assigned to address the leaking pipe.

According to Part C.1 of the facility's permit, the industrial user shall at all times properly operate and maintain all facilities and systems for treatment and control (and related appurtenances) which are installed or used by the industrial user to achieve compliance with the conditions of the permit. Therefore, the facility is required to ensure that it properly operates and maintains its equipment to reduce the risk of contaminating stormwater with oil and ultimately achieve compliance with the discharge limits included in the facility's permit. It is further recommended that the facility ensure that it has the proper SOPs in place to identify, document, and respond to work orders and ultimately ensure that process equipment is adequately operated and maintained.

4. During the inspection of the facility's waste storage area containing the process tanks and Tank V-9, the EPA Inspection Team observed that the facility kept a level meter log book to record the various levels of the tanks (refer to Attachment 2). The EPA Inspection Team reviewed the entries in the log book and noted that the entries recorded in the log book showed varying volumes of stormwater within Tank V-9. Some of the entries varied by as much as 8,180 gallons (July 1 and 2, 2015). The facility representatives explained that the facility had last discharged stormwater to the City's POTW during May 2015. The facility representatives further explained that the facility had been experiencing issues with the meter readings for the various tanks in the waste storage area, and had many of the level meters replaced.

According to Part C.1 of the facility's permit, the industrial user shall at all times properly operate and maintain all facilities and systems for treatment and control (and related appurtenances) which are installed or used by the industrial user to achieve compliance with the conditions of the permit. Therefore, the facility is required to ensure that it properly operates and maintains its equipment

(including level sensors) used to achieve compliance with the permit as stated in Part C.1 of the facility's permit. The facility shall ensure that accurate level meters are recorded in the log book to appropriately document discharge events and maintain documents of said activities. Additionally, it is recommended that the City follow-up with the facility and request and receive documentation showing when the level meters for the tank were replaced to confirm the varying levels of stormwater stored in Tank V-9 according to the log book.

Table 1. Summary of Wastes Accepted at the Facility

Type of Waste	Treatment	Destination
Oil from electrical	Waste is profiled and is either	The waste is stored and
transformers and capacitors	accepted and stored at the	hauled offsite for treatment
containing various	facility or is rejected from the	and disposal at another
concentrations of PCBs.	facility.	facility. Stormwater that
		accumulates within the
		outdoor process area is
		collected, tested, and may be
		treated prior to discharging to
		the City's POTW.

Summary of Requirements and Recommendations for the Facility

Requirements

Permit Citation: "The industrial user shall at all times properly operate and maintain all facilities and systems for treatment and control (and related appurtenances) which are installed or used by the industrial user to achieve compliance with the conditions of the permit."

- 1) The facility is required to ensure that it properly operates and maintains its equipment to reduce the risk of contaminating stormwater with oil and ultimately achieve compliance with the discharge limits included in the facility's permit.
- 2) The facility is required to ensure that it properly operates and maintains its equipment (including level sensors) used to achieve compliance. The facility shall ensure that accurate tank levels for Tank V-9 are recorded in the log book to appropriately document discharge events and associated activities.

Recommendations

- It is strongly recommended that the facility ensure that representative stormwater samples
 are collected utilizing a written technique that is representative of the constituents (e.g.,
 oils) that may contaminate the stormwater collected at the facility and discharged to the
 POTW.
- 2) It is recommended that the facility implement a written process for sampling and discharging stormwater from Tank V-9 in a manner that does not jeopardize compliance with the discharge limitations included in the facility's permit.
- 3) It is recommended that the facility implement and adequately adhere to its spill prevention and clean up procedures to ensure that oils containing PCBs (i.e. hazardous waste liquids) are not leaking onto the pavement at the facility.
- 4) It is recommended that the facility ensure that it has the proper SOPs in place to identify, document, and respond to work orders and ultimately ensure that process equipment is adequately operated and maintained.
- 5) It is recommended that the City follow-up with the facility and request and receive documentation showing when the level meters for the tank were replaced to confirm the varying levels of stormwater stored in Tank V-9 according to the log book.

Appendix 1 Clean Harbors Los Angeles Photograph Log



Photograph 1. View of the newly installed meter, displaying the volume of liquid stored within Tank V-9 at the time of the facility inspection.



Photograph 2. View of a transformer containing transformer oil that has been analyzed and has a PCB concentration of <2 ppm. Note the markings with a grease marker made on the top of the unit.



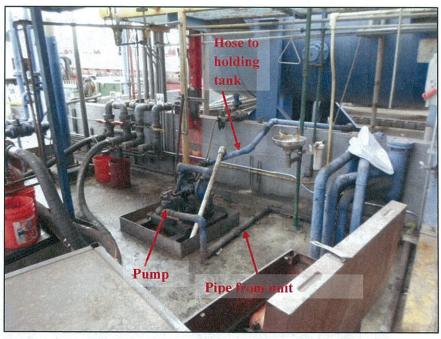
Photograph 3. View of a transformer unit stored at the facility's pumping pad. Note the grease marker states that the concentration of PCBs of the oil within the unit measure over 500 ppm. The facility representatives stated that some transformers are assumed to have a high ppm concentration even if the generator did not sample the oil. The facility analyzes a sample to identify the specific concentration of PCBs of the oil.



Photograph 4. View, facing northwest, of the pumping pad located at the northcentral area of the facility. Note the overhead coverage provided for the area.



Photograph 5. View of a unit stored on the pumping pad at the facility. Note the oil was being pumped from the unit at the time of the inspection.



Photograph 6. View of one of the pumps located to the south of the pumping pad used to transport oil from the units to a holding tank.



Photograph 7. View of the covered pump pad located at the northcentral area of the facility. Note the units stored within the area waiting to have oil removed.



Photograph 8. View, facing west, of the units stored in the pumping pad area with overhead coverage. Note the units are marked and equipped with hazardous waste labels.



Photograph 9. View, looking down at the facility's final sampling location for stormwater discharges to the City's POTW. The sampling point was located outside of the facility's fence line.



Photograph 10. View, facing northeast, of transformers and capacitors accepted at the facility and stored within the facility's storage yard. Note the lack of overhead coverage provided for the units stored within this area of the facility.



Photograph 11. View, facing east, of units located at the northeastern area of the facility. Note the oil staining on the pavement and absorbent material applied to the wooden pallet in the vicinity of the units within the process area.



Photograph 12. Up close view of a leaking unit depicted in Photograph 11. Note the absorbent material applied to the pallet in the vicinity of the leaking unit.



Photograph 13. Additional view of leaking units depicted in Photograph 11. Note the stained pavement and the absorbent material in the vicinity of the leaking units.



Photograph 14. View of the leaking units stored at the northeast area of the facility. These units were stored in the same vicinity as the transformers and capacitors depicted in Photographs 10 through 13.



Photograph 15. View, facing west, of the leaking pipe and accumulated liquid from the leak at the western area of the waste storage area.



Photograph 16. Up-close view of the leaking pipe depicted in Photograph 15.

Attachment 2

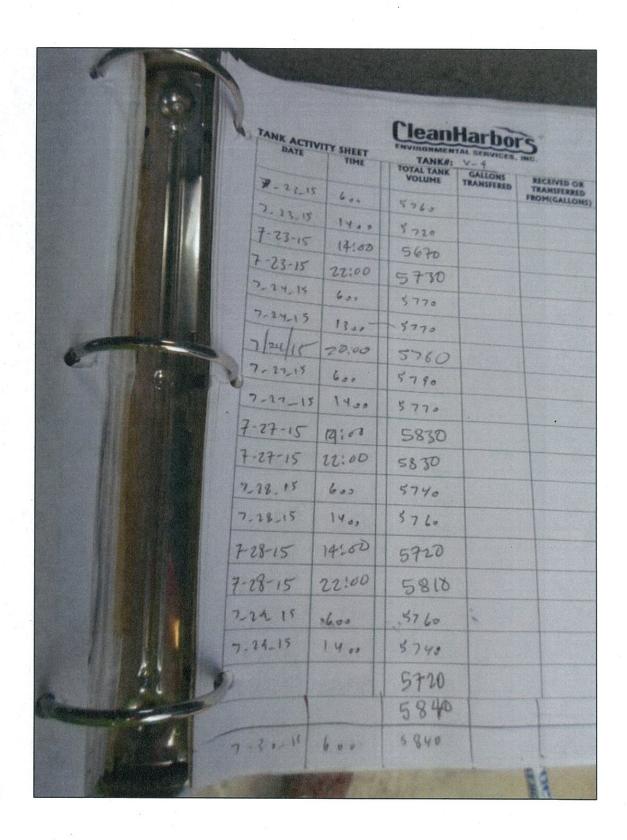
Additional Photographs of Level Sensor Log for Tank V-9 stored at the Facility (presented in chronological order)

629-15 22:00 13920 13:15		TANK ACT		Clean TANKS:	Harbo TAL SERVICES V-9 GALLOES TRANSFERED	NICHVEN ON	
13-15 6 13930 6-30-15 14:00 13930 6-30-15 22:00 13870 7-1-15 6 13420 7-1-15 14:00 13850 7-2-15 12:00 13850 7-2-15 13:00 5740 7-02-15 13:00 5740 7-02-15 14:00 5740 7-02-15 14:00 5740 7-02-15 14:00 5740 7-02-15 14:00 5740 7-02-15 14:00 5740 7-02-15 14:00 5740 7-02-15 14:00 5720 7-06-15 14:00 5720 7-06-15 14:00 5720		1 29-15	14:00	-	TRANSFERED	· · · · · · · · · · · · · · · · · · ·	TRAS
6-30-15 (4:00 13930 6-30-15 22:00 13870 7-1-15 6 13120 7-1-15 14:00 13920 7-01-15 14:00 13920 7-01-15 12:00 13850 7-2-15 13:00 5740 7-02-15 13:00 5740 7-015 14:00 5900 7-06-15 14:00 5420 7-06-15 14:00 5420 7-135 6 5720 7-135 6 5720 7-135 6 5720		63-15	22,00		-		
6-30-15 22:00 13870 7-1-15 6 13920 7-01-15 14:00 13920 7-01-15 14:00 13850 7-2-15 131:00 13850 7-2-15 131:00 5740 7-01-15 14:00 5740 7-01-15 14:00 5700 7-06-15 14:00 5420 7-06-15 14:00 5420 7-06-15 14:00 5420 7-7-15 170. 5700		AND THE REST OF THE PARTY OF TH	bo.	OF HIS DESCRIPTION OF THE PERSON			
7-1-15 6 13920 7-1-15 14.00 13920 7-01-15 14.00 13850 7-2.15 6 139.2 7-01-15 13:00 5740 7-01-15 14:00 5740 7-1.15 6 5700 7-1.15 6 5700 7-1.15 6 5700 7-1.15 6 5700 7-06-15 14:00 5420 7-1.15 6 5700 7-06-15 14:00 5420 7-1.15 6 5700		6-34 15	1100	13930			
7-01-15 1400 13920 7-01-15 14100 13920 7-01-15 14100 13850 7-2-15 13:00 13850 7-2-15 13:00 5740 7-02-15 13:00 5740 7-015 14:00 5900 7-06-15 14:00 5420 7-06-15 14:00 5420 7-7-15 14:00 5420 7-7-15 14:00 5420		CONTRACTOR OF THE PARTY OF THE		13870			
7-01-15 14:00 13920 7-01-15 12:00 13850 7-2.15 6.0 139.0 7-02-15 13:06 5740 7-02-15 10:00 5740 7-02-15 14:00 500 7-06-15 14:00 500 7-06-15 14:00 500 7-06-15 14:00 500 7-06-15 14:00 5000 7-06-15 14:00 5000 7-06-15 14:00 5000 7-06-15 14:00 5000 7-06-15 14:00 5000 7-06-15 14:00 5000 7-06-15 14:00 5000 7-06-15 14:00 5000				13920			
7-01-15 12:00 13850 7-2-15 6.0 1380 7-2-15 13:00 5740 7-02-15 13:00 5740 7-01-15 14:00 5700 7-06-15 14:00 5420 7-06-15 12:00 5720 7-15 22:00 5720 7-15 22:00 5720				SESSECTION OF A CONTRACTOR			
7-2-15 600 13900 7-2-15 13100 5740 7-02-15 20:00 5740 7-03-15 600: 5740 7-03-15 14:00 5400 7-06:15 14:00 5420 7-06:15 22:00 5420 7-06:15 22:00 5420	F	THE RESIDENCE OF THE PARTY OF T					
7.213 1300 5740 7-02-15 13100 5740 7-02-15 20:00 5740 7-615 14:00 5700 7-06:15 22:00 5720 7-7-18 14:00 5670		THE RESIDENCE OF THE PARTY OF T					
7-02-15 13:00 5740 7-02-15 20:00 5740 7-6-15 600 5740 7-6-15 14:00 5690 7-06-15 20:00 5720 7-13: 600 5720 7-13: 600 5720							
7-02-15 20:00 5740 7-1.15 6.0: 5740 7-1.15 14:00 5700 7-06-15 14:00 5420 7-7.15 L 5700 7-7.15 L 5700 7-7.15 L 5700							
7-615 600 5700 7-615 14:00 5690 7-06-15 22:00 5720 7-7-18 600 5670		Residence of the second					
7-LIS 1400 5700 7-06-15 14:00 5690 7-06-15 22:00 5220 7-06-15 22:00 5720 5720 7-7-18 1400 5700			20,00				
7-06-15 14:00 5690 7-06-15 22:00 5420 7-06-15 22:00 5420 7-7-15 L. 5720 7-7-15 14:00 5630		7-6-15	6001				
7-06-15 22:00 5420 7-06-15 22:00 5720 5720 14.00 5700 15:00 5040				5700			
7-06-15 22:00 5420 5720 5720 1400 5700 1400 5640		7-06-15	14:00	5690			
7.7.18 14.00 57.00			27:00	5220			
7-7-18 1400 5000				5720			
1910 19630		7,121		\$7-00			
		7-7-15				1	
	* * 1	7-14-15	22:00	57+10			

	TANK ACTI	TIME	Lean TANK#:	Harbon MAL SERVICES	S
	2-8-15	-	TOTAL TANK VOLUME	GALLONS TRANSFERED	RECEIVED OR TRANSFERRED
	2-8-15	600	\$720		FROM(GALLONS
	7-08-15	100	\$670		
	7-08-15	14:00	5700		
	7-9-15	00:22	5690		
	STATE OF THE PARTY	600	5700		
	7-915	140.	5-14.		
	7-09-15	14:00	5700		
C	7-09-15	22:00	5706		-
	7-10-15	600	-5770		
	7-11-15	13.	17927		
	7-10-15	13:00	13886		
	7-10-15	20:00	5760		
	マンルング	600	5770		
	7-13-15	1400	13920		
	7-13-15	14:00	13850		
	7-13-15	22:00	5740		
	214,13	6	3760		
	7.14.15	1401	13920		
	1215	14:00	5740	1	

*Note the change in the values documented in the last column (total tank volume) for Tank V-9.

	TANK ACTIV	VITY SHEET	TANK#:	Harbon AL SERVICES.	
	THE RESERVE THE PROPERTY OF THE PARTY OF THE		TOTAL TANK VOLUME	GALLONS TRANSFERED	RECEIVED OR TRANSFERRED FROM(GALLONS)
	7.15.15	6	572+		
	7-15.15		5740		
	7-15-15		5720		
	7-15-15	THE RESIDENCE OF THE PARTY OF T	5760		
	7-16-15	600	3740		
		17 00	13610		
	7-16-15	14:00	13960		
	7-16-15		5770		-
	7_17_18	600	-5770		
1 100 3	7-17-15	13.2	3790		
	7/17/15	20:00	5760		
	7-2-15	i.o	5670		
	7-20-15		2090		
	7-20-15		5740		
	7-11-15	600	576-		
	7-245	1401	5760		
			5760		
ALIGH AL	7-21-15	14:00			
	7-21-15	22:00	5740		

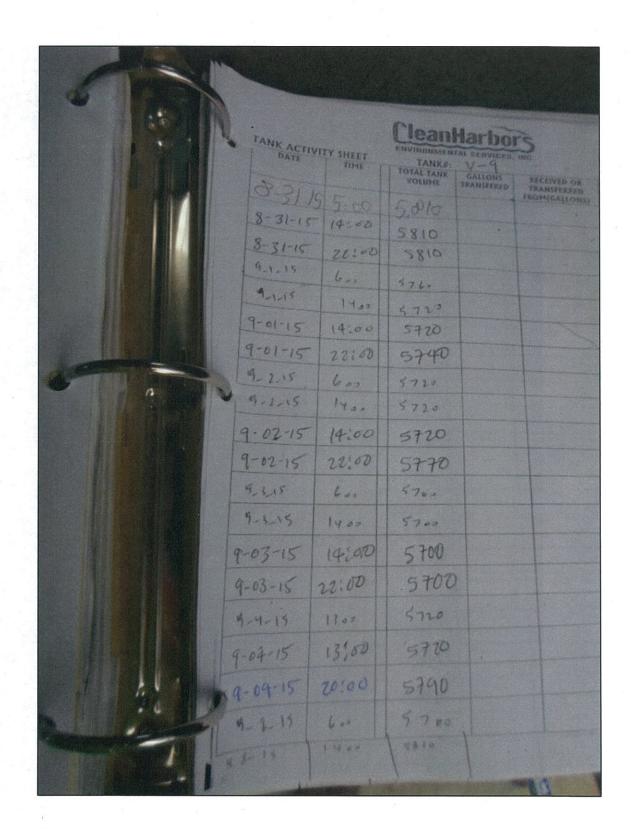


TOTAL TANK GALLONS RECEIVED OR VOLUME TRANSFERED TRANSF			TTY SHEET	ENVIRONMENT TANKI:	larboi	<u>``</u>	
7-30-15 14:00 5740 1050 7-31:5 L 188. 2-31:5 17 188. 2-31:5 17 5310 8-31:5 14:00 5760 8-03-15 12:00 5810 8-15 14:00 5793 8-04-15 14:00 5720 8-04-15 14:00 5720 9-515 6 5793 8-04-15 14:00 5720 9-515 6 5860 9-515 6 5890 9-515 14 570			4	TOTAL TANK	GALLONS	TRANSFERRED	SH
1050 2.51.15 6 188 2.51.15 17 20.60 7/21/15 20.60 52/0 2.3.15 60 9999 2.2.15 14 576 8-03-15 14:00 58/0 2.4.15 6 5793 8-04-15 14:00 5920 9.515 60 5860 9.515 60 5860 9.515 60 5890 9.515 14 570						PROM(GALLONS)	"
2-3215 600 5810 2-3215 1400 5810 2-3215 1400 5810 8-03-15 1200 5810 8-03-15 1200 5810 8-04-15 1400 5720 8-04-15 1200 5720 9-04-15 1200 5860 9-215 600 5860 9-215 600 5890 9-215 600 5890		1 30-15	14:00	5740			
23215 1300 2010 2-3215 60. 9399 8-3215 140. 5760 8-03-15 1400 5810 8-03-15 1400 5810 8-04-15 14:00 5720 8-04-15 200 5860 9-215 600 5890 9-215 600 5890 9-215 600 5890		17/11/		1050			T
7/31/15 20:00 5310 3-3-15 60. 9999 8-215 14.00 570 8-03-15 12:00 5810 8-15 14:00 5723 8-04-15 14:00 5720 8-04-15 12:00 5860 9-15 60. 5890 9-15 14.0 5890				1880			
2-3.15 60. 8999 8-3.15 14.00 5700 8-03-15 12:00 5810 2-4.15 14.00 5720 8-04-15 14:00 5720 8-04-15 22:00 5860 9.5.15 600 5890 9.5.15 14.0 5890			THE RESERVE OF THE PERSON NAMED IN	A CONTRACTOR OF THE PARTY OF TH			
8-215 14.00 5760 8-03-15 14:00 5810 8-03-15 12:00 5810 8-4-15 14:00 5793 8-04-15 14:00 5720 8-04-15 12:00 5860 9-215 600 5890 9-215 600 5890			The state of the s	5810			
8-03-15 14:00 570 8-03-15 12:00 5810 8-4-15 14:00 5793 8-04-15 14:00 5720 8-04-15 22:00 5860 9-5-15 14:0 5890	The second second			NEWSCHOOL STREET, STRE			
8-03-15 22:00 5810 8-4-15 60, 5260 8-4-15 14:00 5720 8-64-15 22:00 5860 9-5-15 60, 5290 9-5-15 140, 5770	· ·	10	CONTRACTOR DE LA CONTRA				
8-4-15 1400 5793 8-84-15 14:00 5720 8-64-15 22:00 5860 9-515 600 5890 9-515 1400 5770			Name of the second				
2-4-15 14:00 5720 8-64-15 14:00 5720 8-64-15 22:00 5860 9.5.15 60, 5890 9.5.15 140, 6770		8-03-15	22:00	5810			
8-84-15 14:00 5720 8-04-15 22:00 5860 9.5.15 60, 5890 9.5.15 140, 5770		8-4-15	600	5860			
8-04-15 22:00 5860 9-5-15 600 5890 9-5-15 1400 5770		2-4-15	1400	5793			
8-04-15 22:00 5860 9.515 601 5890 9.5-15 1401 5770		8-04-15	17:00	5720			
9.5.15 140 5770			STATE OF THE PARTY	5860			
9.5.15 14., 5770		9.815	600	5890			
				5 770			
				5740			
1 18-15-15 22:00 5890 150 SCE			A STATE OF THE PARTY OF THE PAR		150	50	F ?

8-7-15 60. \$770 8-7-15 13:30 5700 8-07-15 20:00 5700 8-10-15 20:00 5700 8-10-15 14:00 5760 8-11-15 5:00 64 5700 8-12-15 14:00 5790 8-12-15 14:00 5790 8-12-15 14:00 5790 8-12-15 14:00 5790 8-12-15 14:00 5790 8-12-15 14:00 5790 8-12-15 14:00 5790 8-12-15 14:00 5790 8-12-15 14:00 5790 8-12-15 14:00 5790 8-12-15 14:00 5790 8-12-15 14:00 5770 9-13-15 14:00 5770	TANK ACT	IVITY SHEET	TANK#	Harbon	3
8-2-15 173, 5740 8-07-15 15:30 5700 8-07-15 20:00 5700 8-10-15 14:00 5760 8-10-15 12:160 5830 8-11-15 5:00 5720 2-12-15 14:00 5740 8-12-15 14:00 5790 8-12-15 14:00 5790 8-12-15 14:00 5790 8-12-15 14:00 5790 8-12-15 14:00 5770 9-12-15 14:0 5770 9-13-15 14:0 5770 9-13-15 14:0 5770			TOTAL TANK	GALLONS TRANSFERED	PROLIVED OF
8-07-15 13:30 5700 8-07-15 20:00 5700 9-1-15 14:00 5700 8-10-15 14:00 5700 8-10-15 22:00 5830 8-11-15 5:00my 5-720 8-12-15 14:00 5740 8-12-15 14:00 5740 8-12-15 14:00 5740 8-12-15 14:00 5770 9-13-15 140- 5770 9-13-15 140- 5770 9-13-15 140- 5770 9-13-15 140- 5770 9-13-15 140- 5770			5770		FROMIGALION
8-07-15 20:00 5700 2-115 60, 5700 2-115 140, 5727 8-10-15 14100 5400 8-10-15 5:00my 5720 1-12-15 5:00my 5720 2-12-15 140, 5740 8-12-15 140, 5740 8-12-15 22:00 5780 8-12-15 140, 5770 2-12-15 140, 5770 2-12-15 140, 5770 2-12-15 140, 5770 2-12-15 140, 5770 2-12-15 140, 5770			5740		
8-10-15 14100 5760 8-10-15 14100 5760 8-10-15 22100 5830 8-11-15 5:00my 5720 2.12.15 140. 5740 8-12-15 14:00 5740 8-12-15 14:00 5740 8-12-15 14:00 5770 9-13-15 140. 5770 9-13-15 140. 5770 8-13-15 140. 5770 8-13-15 140. 5770		1	5700		
8-10-15 14100 5700 8-10-15 14100 5700 8-10-15 22100 5830. 8-11-15 5-00 5720 2-12-15 1400 5700 8-12-15 1400 5790 8-12-15 1400 5790 8-12-15 1400 5790 8-12-15 1400 5790 8-12-15 1400 5790 8-12-15 1400 5790 8-12-15 1400 5790 8-13-15 1400 5790 2-13-15 1400 5790 2-13-15 1400 5790 2-13-15 1400 5790 2-13-15 1400 5790			5700		
8-10-15 14:00 5700 8-10-15 12:100 5830. 8-11-15 5:00my 5700 1-11-15 7:00 5790 2-12-15 14:00 5790 8-12-15 14:00 5790 8-12-15 14:00 5790 9-12-15 14:00 5790 9-12-15 14:00 5790 9-12-15 14:00 5790 9-12-15 14:00 5790 9-12-15 14:00 5790 9-12-15 14:00 5790		1000	5720		
8-11-15 72110 5830. 8-11-15 5:00 pm 5720 1-12-15 7:00 5790 2-12-15 140 5790 8-12-15 14:00 5790 8-12-15 72:00 5780 8-12-15 72:00 5780 9-12-15 740 5770 9-12-15 140 5770 9-12-15 140 5770 9-12-15 140 5770 9-12-15 140 5770		137	5720		
8-11-15 5:00 my 5720 5-12-15 7:00 5730 2.12.15 6.5 5740 8-12-15 14:00 5790 8-12-15 72:00 5780 8-12.15 6.0 5770 9-12.15 14:10 5770 8-13-15 14:10 5770					
5-12-15 14:10 5710 8-12-15 140 5790 8-12-15 22:00 5780 8-12-15 22:00 5780 8-12-15 14:00 5770 9-13-15 140 5710 8-13-15 14:10 5710	The Section of the Se		5830		
2.12.15 140. 5790 8-12-15 14:10 5790 8-12-15 12:00 5780 8-12:15 12:00 5780 9-12:15 14:10 5770 9-13-15 14:10 5770 2.13-15 14:10 5770			5720		
8-12-15 14:00 5790 8-12-15 14:00 5790 8-12-15 22:00 5780 8-12-15 14:00 5770 9-12-15 14:00 5770 9-13-15 14:00 5770	15-12-15	2.00	5720		
8-12-15 14:00 5790 8-12-15 14:00 5790 8-12-15 22:00 5780 8-12:13 600 5770 9-12-15 1400 5770 9-13-15 14:00 5770	2.12.15	600	5740	til	
8-12-15 22:00 5780 8-12-13 6-0 5770 2-13-15 140 5770 8-13-15 14:40 5770	8-12-15	1400	5790		
8-17,18 600 5770 2-13-15 1400 5770 8-13-15 14110 5770	8-12-15	14:00	5790		
2-12-15 140 577. 8-13-15 14:10 5710 8-090	8-12-15	22:00	5780		
8-13-15 14:10 5910	8-13,18	600	5770		
8-13-15 14:10 5910	2-13-15	140-	577.		
0000		14:10	5710		
	18-13-15		5890		

	TANK ACTI		Clean	Harbon	è
	TANK ACTIVATE		TANK#: TOTAL TANK FOLUME	V-7 GALIONS TRANSFERSD	RECEIVED OR
	2-17.15		580		FROM(GALLONS)
	8-12-15	6	\$790		
	8-17-15	1400	579-		
III SALA	8-17-15	14:00	5720		
	8.18.0	22:00	5810		
	8-18-15		5790		
		1422	5760		-
5	8-18-15	14:00	5700		
	8/2/1	600	5840		
THE PARTY	8-19-15	STATE OF THE PARTY	5760		
	8-19-15	14:00	5706		
	8-19-15	22:00	5840		
	2-20-15	600	5700		
	2-7-15	14001	4740		
	8-20-15	14:00	5670		
	8-20-15	22:00	5670		
	8 21 15	600	14.700		
	12 21.11	13.0	4762		
		19:00	5760		
		9:00	5760		

1/A	ANK ACTIV	Service of the servic	Cleant TANK#: TOTAL TANK VOLUME	Harbor	RECEIVED OR	\$40
	8-24.1	5 600	+		TRANSFERRED FROM(GALLONS)	TRANS
	12 34-17	11400	5770			1
	10 24-15	14:00	5770			+
	8-24-15	22:00	5790			1
	P. 25-15	6:00	5770			
	0-25-15		5370			
	8-25-15		5770		1	
5	8-25-15	THE RESIDENCE OF THE PARTY OF T	5810			1
	8-26.15	CONTRACTOR OF THE PARTY OF THE	-5010	1.	1	1
	8-26-15	Committee of the Commit	5740			
	18-26-15	2:00	5740			
A CARLON	8-26-15	14:00	5830			
	8-26-15	22.00	5830			
	8-27-18	STATE OF THE PARTY	9.830			
	A- 27-19		5,770			
	LLV Y	14:00	5760			
	8-27-15					
	8:77-15	22:0D	5830	Service Control	-	
	0878-19	5.00	5000		1	
Le la Marie	P. 31.74	2:00	5010		-	
		20,00	580	DER GERMAN		



	TANK ACTIVITY SHEET		CleanHarbors ENVIRONMENTAL SERVICES INC. TANKA: V-9 TOTAL TANK GALIONS BECERVIS		
	9-08-15	14:00	AOTHWE	TRANSFERED	RECEIVED TRANSFER FROM(GAL
	9-08-15		5810		
	9-1-15	11:00	5790		
	9-9-18	600	5240		
		11-1	5789		
	9-09-15	14:00	5789		
	9-29-15	22:00	5780		
	09-10-15	5:00	5780		
7	9-10-15	14:00	2040		
	19-10-15	22:00	2060		
	8-12-15	600	2,20		
	3_11-15	1370	2623		
	9-11-15	14200	2020		
	9-11-15	2000	1970		-
	9-14-15	6001	2090	1	+
	4.17.15	1402	2003		+
		,			